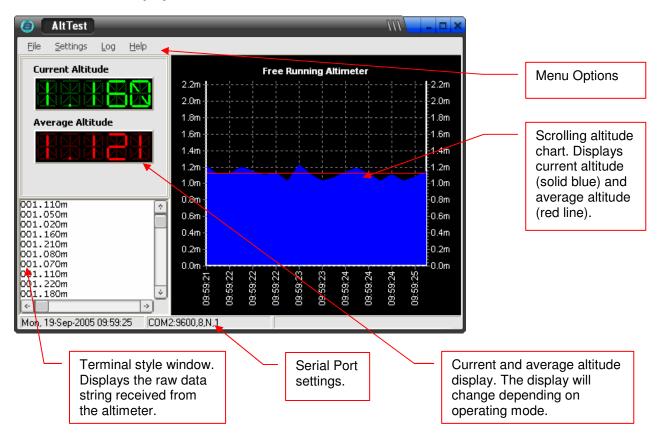
# **AltTest Software User Guide**

AltTest software provides a simple way of communicating with Tritech altimeters and displaying the data. It is compatible with Microsoft Windows 98/2000/XP. Altimeter data can be logged in two formats, raw or processed. Processed log data can be imported into a spreadsheet package for post processing.

## AltTest Software Display



## **Menu Options**

#### <u>F</u>ile

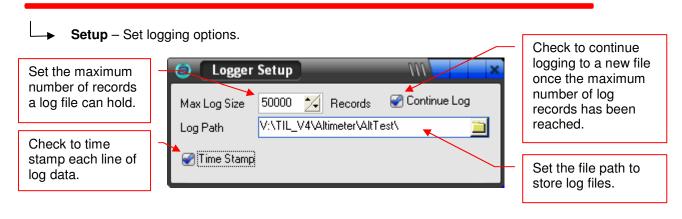
Exit – Closes the AltTest application.

# **Settings**

- **COM Port** Change the settings of the Com Port.
- ▶ Options Change application options (See below).

#### <u>L</u>og

Format – 'Raw' will log the exact data string that is sent by the altimeter. 'Processed' will log all processed data and settings in CSV (Comma Separated Value) format.

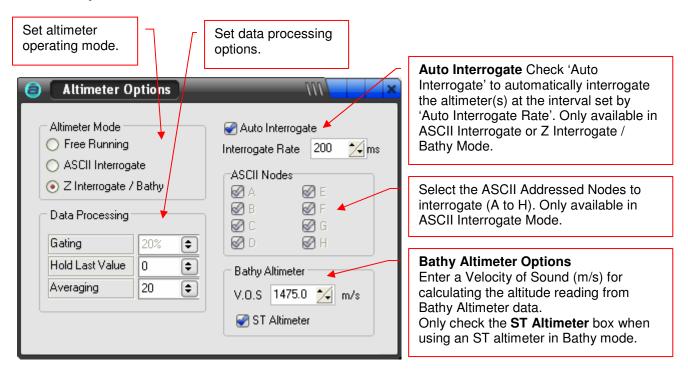


Record – Toggle to start / stop logging data.

## <u>H</u>elp

- ▲ About Details about the AltTest application.
- System Information about the Windows system.

# **AltTest Options**



### **Data Processing Options**

**Gating** – Select what percentage to use for the gating range of an altitude reading. The gating range is calculated as +/- gating of the last altitude reading. (i.e for gating set at 20%, the gating range is +/- 20% of the last altitude reading). If the next altitude reading falls out of this range then it is regarded as invalid and the previous altitude reading is used.

**Hold Last Value** – Select how long you should hold onto the last valid altitude reading. If an altitude reading falls out of the gating range of the previous reading then we can hold onto the last good altitude for a specified number of readings or until a reading within the gating range is received. If 'Hold Last Value' is set to 0 then AltTest ignores gating range's and regards all altitude readings as valid.

**Averaging** – Select how many data samples to use when calculating the average altitude of an altimeter.

# **AltTest Operating Modes**

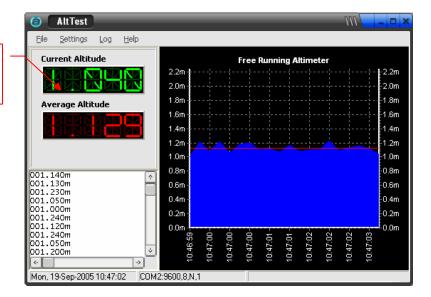
#### 1) Free Running Mode

Select Free Running Mode for an altimeter which has been configured to operate as a free running altimeter. The altimeter mode is set by switch settings inside the altimeter. When in free running mode, the altimeter is operating under its own control sending out data. It requires no interrogation from the AltTest program.

AltTest displays the current altitude of the altimeter and plots it on the chart. AltTest will also calculate an average altitude using a specified number of data samples (set in 'Settings -> Options') which is also displayed and charted. The number of data samples plotted on the chart will be the same number used to calculate the average altitude.

#### Free Running Mode Display

Current altitude (green) and average altitude (red) in meters.



#### 2) ASCII Interrogate Mode

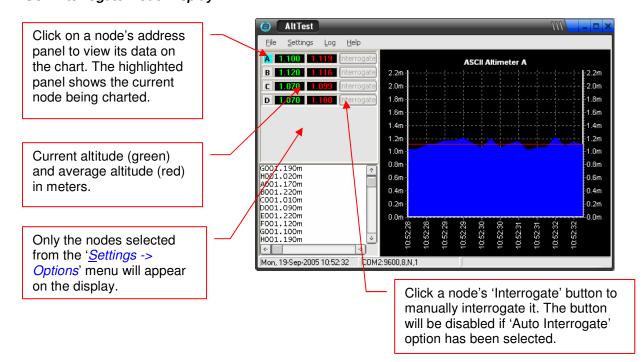
Select ASCII Interrogate Mode for altimeters configured as ASCII addressable nodes (single character ASCII address in the range A to H). The address is set by switch settings inside the altimeter. The units are always triggered by interrogation (i.e. they cannot free run).

ASCII addressable units may be connected together on an RS485 or multidrop RS232 communications link.

AltTest allows the user to select which addressable units are available for interrogation nodes that have been selected are on the display ('Settings -> Options'). Each node can be manually interrogated by pressing its 'Interrogate' button. All available nodes can also be automatically interrogated using the 'Auto Interrogate' function at the rate defined by the 'Auto Interrogate Rate' setting.

AltTest displays the current altitude of the altimeter. It also calculates an average altitude using a specified number of data samples which is also displayed. The altimeter data displayed on the chart can be selected by clicking on an altimeter's address panel which will then be highlighted. The number of data samples plotted on the chart will be the same number used to calculate the average altitude.

#### ASCII Interrogate Mode Display



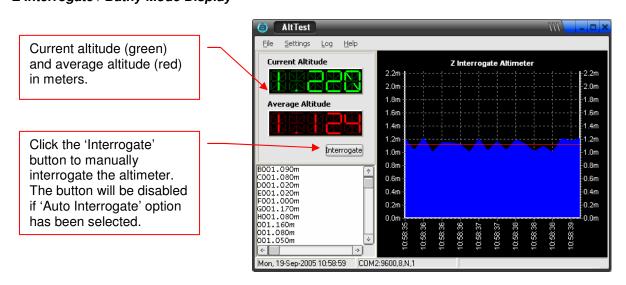
### 3) Z Interrogate / Bathy Mode

Select Z Interrogate / Bathy Mode for an altimeter configured to be an interrogated altimeter or a Bathy altimeter. This option is set by switch settings inside the altimeter.

AltTest allows the user to manually interrogate the altimeter by pressing the 'Interrogate' button. The altimeter can also be automatically interrogated using the 'Auto Interrogate' function at the rate defined by the 'Auto Interrogate Rate' setting ('Settings -> Options').

AltTest displays the current altitude of the altimeter and plots it on the chart. AltTest will also calculate an average altitude using a specified number of data samples which is also displayed and charted. The number of data samples plotted on the chart will be the same number used to calculate the average altitude.

## Z Interrogate / Bathy Mode Display



NB: When using an ST altimeter in Bathy mode, make sure the 'ST Altimeter' box is checked in '<u>Settings</u> - > Options' to allow the AltTest program to correctly interpret ST Altimeter Bathy Mode data.